DOCKET NO.: ISIS-0841 PATENT

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I verily believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: Gapped 2' Modified Oligonucleotides, the specification of which:

- () is attached hereto.
- (XX) was filed on <u>June 21, 1994</u> as Application Serial No. <u>08/244,993</u> and was amended on <u>December 14, 1994</u>, <u>September 7, 1995</u>, <u>February 26, 1996</u>, and <u>August 28, 1996</u>

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Country	Number	Date Filed	Priority Claimed

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (patented, pending)
08/007.996	January 21, 1993	abandoned
PCT/US92/11339	December 23, 1992	abandoned
07/814.961	December 24, 1991	abandoned

I hereby appoint the following attorney(s) and/or-agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: John W. Caldwell, Esquire and Joseph Lucci, Esquire, Registration Nos. 28,937 and 33,307 of the firm of WOODCOCK WASHBURN KURTZ MACKIEWICZ NORRIS, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103, and Herb Boswell and Laurel Bernstein, Registration Nos. 27,311 and 37,280, of ISIS Pharmaceuticals, 2280 Faraday Avenue, Carlsbad, California 92008.

Address all telephone calls and correspondence to:

Joseph Lucci, Esquire
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One Liberty Place - 46th Floor
Philadelphia, PA 19103
Telephone No. 215-568-3100.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	Full Name Phillip Dan Cook	Inventor's Signature	Date 8/56/91		
1	Residence Vista, CA 92084	Citizenship U.S.A.			
	Post Office Address 763 Mason Road	·			
2	Full Name Brett P. Monia	Inventor's Signature	Date 8/30/96		
	Residence Carlsbad, CA 92008	Citizenship U.S.A.			
	Post Office Address 2412 Granada Way				
3	Full Name	Inventor's Signature	Date		
	Residence Citizenship				
	Post Office Address				
4	Full Name	Inventor's Signature	Dat		
	Residence Citizenship				
	Post Office Address				
5	Full Name	Inventor's Signature	Dat		
	Residence Citizenship				
	Post Office Address				

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ISIS-0841 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Cook

Serial No.: 08/244,993 Group Art Unit: 1804

Filed: June 21, 1994 Examiner: C. Low

For: GAPPED 2' MODIFIED OLIGONUCLEOTIDES

CONSENT OF ASSIGNEE TO CORRECTION OF INVENTORSHIP

ISIS Pharmaceuticals is the assignee of the above-captioned patent application. As an official empowered to act on behalf of the ISIS Pharmaceuticals, I hereby acknowledge that the ISIS Pharmaceuticals consents to the addition of Brett P. Monia as a co-inventor of the above-captioned patent application.

B. Lynne Parshall

(Name)

Executive Vice President

(Title)

(Signature)

(Data)

DOCKET NO.: ISIS-5213 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Phillip Dan Cook; and Brett P. Monia

Serial No.: Not Yet Assigned

Filed: Filed Herewith

For: Gapped 2'-Modified Oligonucleotides

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

ASSOCIATE POWER OF ATTORNEY

The undersigned, of the firm WOODCOCK WASHBURN LLP, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103, Attorney(s) and/or Agents for Applicant(s), hereby appoints the all the practitioners associated with Customer Number 32,650 his or her associates with full power to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

Date: JUNE 20, 200 3

Registration No. 33,307

Confirmation No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

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